

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P559673

Luminaire Tested: **DL2-BB-M-125U-050D-935-UNV-STD-W-4**

Issue Date: 3/5/2020

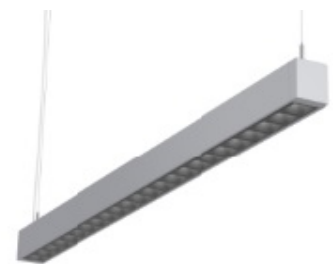
**Test Information**

Test Method: LM-79-08  
Report Number: P559673  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-13, G3-2104-222-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/5/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DL2-BB-M-125U-050D-935-UNV-STD-W-4  
Description: CORELITE DL2 SUSPENDED LED LUMINAIRE  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

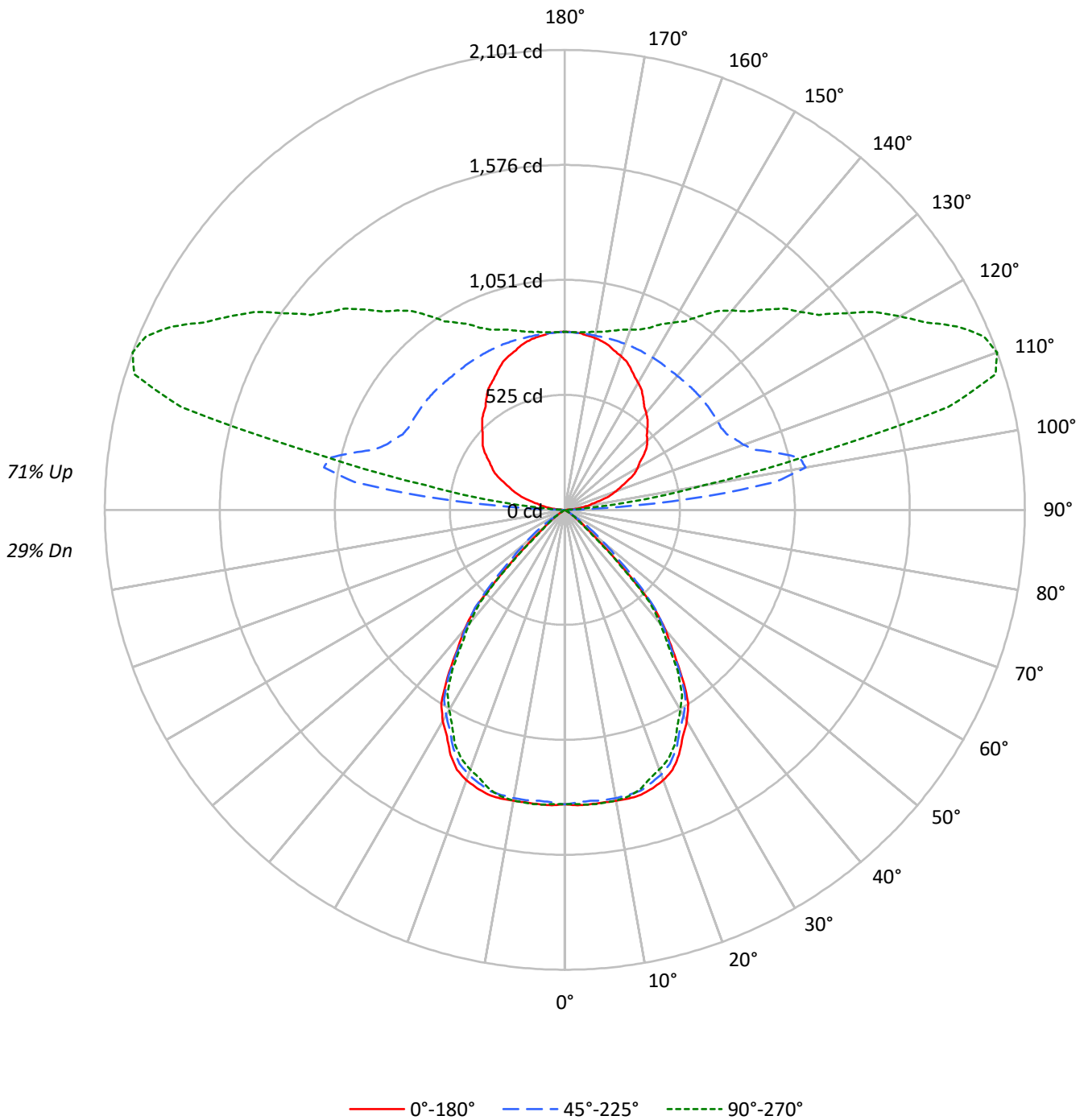
Lumens per Lamp: N/A  
Luminaire Lumens: 7025.0 lumens  
Efficiency: N/A  
Efficacy: 113.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



TEST NUMBER: P559673  
CATALOG NUMBER: DL2-BB-M-125U-050D-935-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P559673

CATALOG NUMBER: DL2-BB-M-125U-050D-935-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	102	102	102	102	91	91	91	91	71	71	71	53	53	53	36	36	36	29				
1	94	90	87	84	84	81	78	76	64	62	61	48	47	46	34	33	33	26				
2	87	80	75	71	78	72	68	64	58	55	52	44	42	41	31	30	30	24				
3	80	72	65	60	72	65	59	55	52	48	45	40	38	36	29	28	27	22				
4	74	64	57	52	66	58	52	48	47	43	40	36	34	32	27	25	24	20				
5	68	58	50	45	61	52	46	42	42	38	35	33	30	28	25	23	22	18				
6	63	52	45	40	57	47	41	37	39	34	31	30	28	25	23	21	20	17				
7	58	47	40	35	52	43	37	33	35	31	28	28	25	23	21	19	18	15				
8	54	43	36	31	49	39	33	29	32	28	25	26	23	21	20	18	16	14				
9	51	39	33	28	46	36	30	26	30	25	22	24	21	19	18	16	15	13				
10	47	36	30	25	43	33	27	24	28	23	20	22	19	17	17	15	14	12				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	21723	21723	21723
5°	21870	21627	21903
10°	22123	21927	22107
15°	22522	22221	22121
20°	22584	22103	21691
25°	21991	21455	21116
30°	20775	20215	19675
35°	18415	18199	17686
40°	15032	14821	14231
45°	8862	10460	8245
50°	2989	5830	2663
55°	1013	2083	1070
60°	97	614	32
65°	0	38	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0



TEST NUMBER: P559673

CATALOG NUMBER: DL2-BB-M-125U-050D-935-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.5	1.8
10°-20°	376.3	5.4
20°-30°	553.7	7.9
30°-40°	565.8	8.1
40°-50°	325.3	4.6
50°-60°	56.9	0.8
60°-70°	2.1	0.0
70°-80°	0.0	0.0
80°-90°	1.2	0.0
90°-100°	311.0	4.4
100°-110°	1012.4	14.4
110°-120°	1001.4	14.3
120°-130°	818.4	11.6
130°-140°	668.9	9.5
140°-150°	521.0	7.4
150°-160°	375.5	5.3
160°-170°	229.5	3.3
170°-180°	77.4	1.1
0°-30°	1058.6	15.1
0°-40°	1624.3	23.1
0°-60°	2006.5	28.6
0°-90°	2009.7	28.6
90°-120°	2324.8	33.1
90°-150°	4333.0	61.7
90°-180°	5015.0	71.4
0°-180°	7025.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1349	1346	1334	1353	1351	129
15°	1347	1359	1329	1330	1323	380
25°	1234	1245	1204	1191	1185	564
35°	934	939	923	908	897	576
45°	388	452	458	434	361	304
55°	36	43	74	42	38	41
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	3	7	6	6	2
95°	42	128	570	203	125	49
105°	172	248	1003	1916	1814	183
115°	318	380	817	1684	1981	315
125°	442	493	806	1329	1567	393
135°	534	590	802	1147	1294	412
145°	624	670	800	988	1082	391
155°	712	735	805	885	918	328
165°	777	784	807	837	847	219
175°	810	810	810	816	814	77
180°	813	813	813	813	813	



TEST NUMBER: P559673

CATALOG NUMBER: DL2-BB-M-125U-050D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.4	1345.4	1345.4	1345.4	1345.4
2.5°	1351.0	1347.9	1337.4	1349.3	1346.2
5°	1349.4	1346.5	1334.4	1353.3	1351.4
7.5°	1348.6	1346.2	1338.2	1354.7	1350.8
10°	1349.4	1349.4	1337.4	1352.3	1348.4
12.5°	1351.0	1354.9	1335.0	1346.7	1341.2
15°	1347.4	1359.1	1329.4	1330.2	1323.4
17.5°	1332.8	1348.6	1308.0	1298.3	1288.0
20°	1314.4	1331.0	1286.4	1271.2	1262.4
22.5°	1286.4	1302.2	1255.2	1242.3	1232.8
25°	1234.4	1245.1	1204.3	1191.2	1185.3
27.5°	1166.3	1171.8	1136.3	1122.7	1112.9
30°	1114.3	1114.3	1084.3	1069.0	1055.3
32.5°	1049.5	1046.4	1026.7	1009.0	996.1
35°	934.3	939.2	923.3	908.0	897.3
37.5°	806.8	811.5	795.2	777.9	770.4
40°	713.2	717.1	703.2	685.0	675.2
42.5°	598.0	619.1	606.4	586.5	573.6
45°	388.1	451.7	458.1	434.5	361.1
47.5°	202.3	268.8	317.7	242.6	170.0
50°	119.0	162.1	232.1	132.4	106.0
52.5°	76.6	95.4	163.2	84.7	71.6
55°	36.0	42.9	74.0	41.9	38.0
57.5°	13.4	20.1	33.4	20.3	14.6
60°	3.0	8.9	19.0	5.9	1.0
62.5°	0.6	2.6	11.0	1.2	0.2
65°	0.0	0.0	1.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.6	1.4	1.2	1.2
90°	0.0	2.9	7.0	6.0	6.0
92.5°	14.4	51.7	165.4	54.5	42.0
95°	42.0	128.0	569.9	203.2	125.0
97.5°	79.0	166.6	967.3	589.1	359.6
100°	103.0	189.0	1116.9	995.9	645.9
102.5°	130.2	213.1	1098.5	1473.4	1120.3
105°	172.0	248.2	1002.9	1915.5	1813.8
107.5°	217.2	288.9	912.1	1953.8	2061.6
110°	250.0	315.5	868.9	1906.2	2100.8

TEST NUMBER: P559673

CATALOG NUMBER: DL2-BB-M-125U-050D-935-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	277.2	341.9	841.7	1820.3	2071.2
115°	318.0	379.6	816.9	1683.6	1980.8
117.5°	360.0	415.5	807.3	1558.3	1854.2
120°	384.0	438.7	804.9	1481.3	1767.8
122.5°	407.2	461.1	805.7	1414.5	1681.4
125°	441.9	492.8	805.9	1329.2	1566.8
127.5°	471.7	523.8	805.7	1265.4	1463.4
130°	490.9	543.7	804.9	1228.9	1405.8
132.5°	507.7	562.9	804.1	1195.0	1361.0
135°	533.9	589.7	801.9	1147.2	1293.9
137.5°	559.5	615.7	799.7	1098.6	1228.9
140°	577.9	631.7	798.9	1065.7	1188.9
142.5°	595.5	647.0	798.9	1034.2	1144.1
145°	623.9	669.9	799.9	988.0	1081.9
147.5°	651.5	691.4	801.3	948.7	1021.3
150°	669.9	705.1	802.9	925.3	986.9
152.5°	688.3	717.3	803.7	907.4	956.5
155°	711.9	735.4	804.9	884.7	917.9
157.5°	734.3	751.1	806.1	867.8	891.1
160°	747.9	761.6	806.9	857.3	875.9
162.5°	759.9	770.5	806.9	848.4	862.3
165°	776.9	783.8	806.9	837.1	846.9
167.5°	788.9	793.2	807.1	828.6	833.7
170°	796.9	798.9	807.9	823.0	824.9
172.5°	802.5	803.7	809.5	819.7	819.3
175°	809.9	809.9	809.9	815.9	813.9
177.5°	812.9	812.1	811.3	815.2	812.1
180°	812.9	812.9	812.9	812.9	812.9

(END OF REPORT)